

FIG. 1

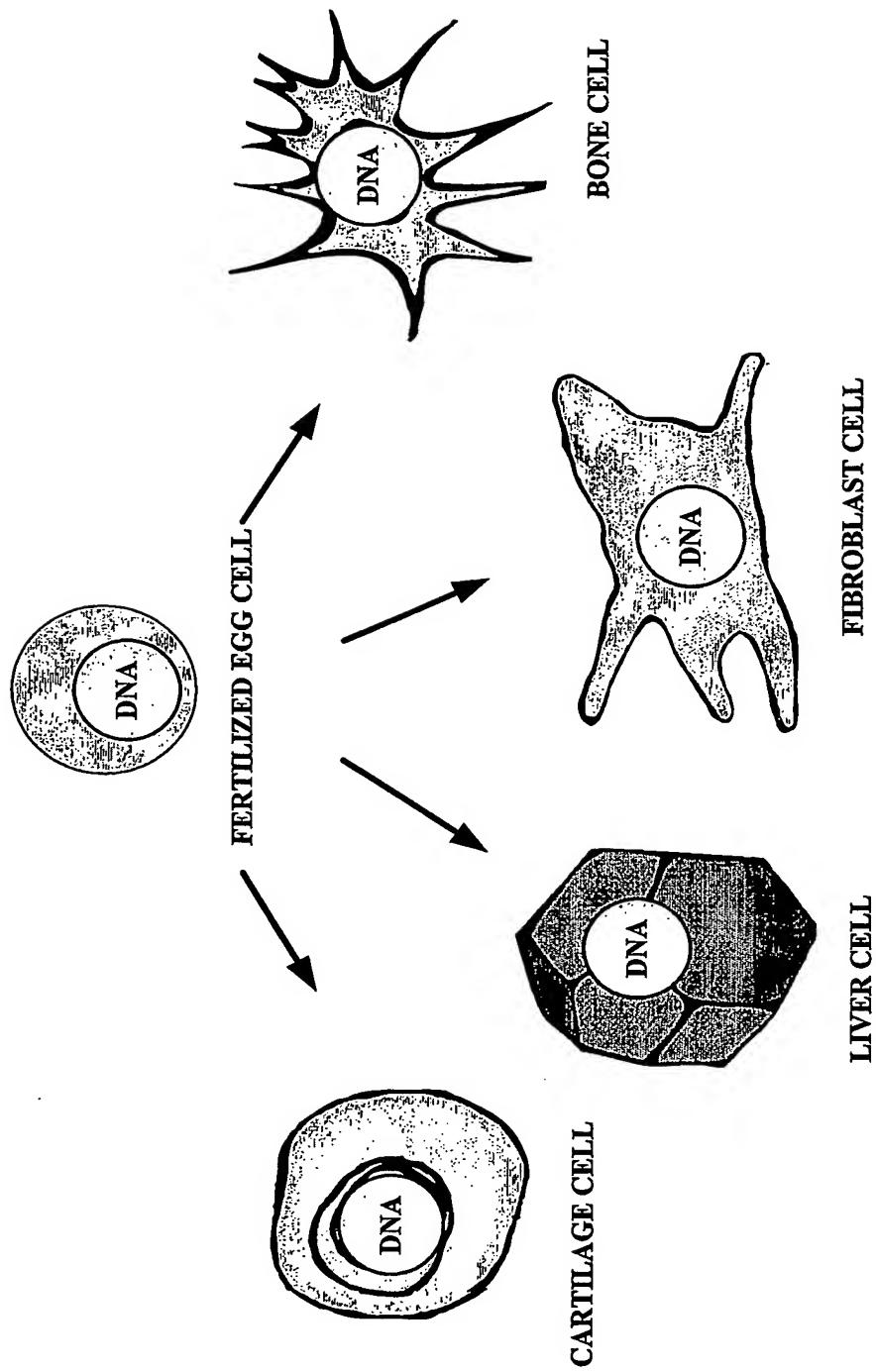


FIG. 2A

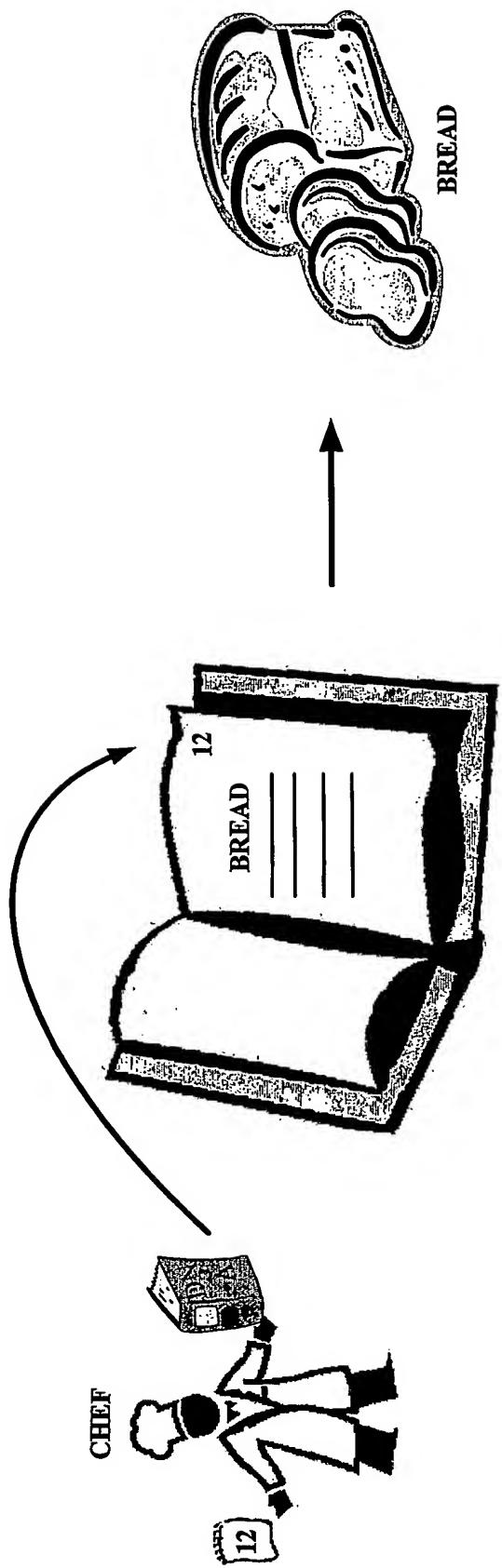
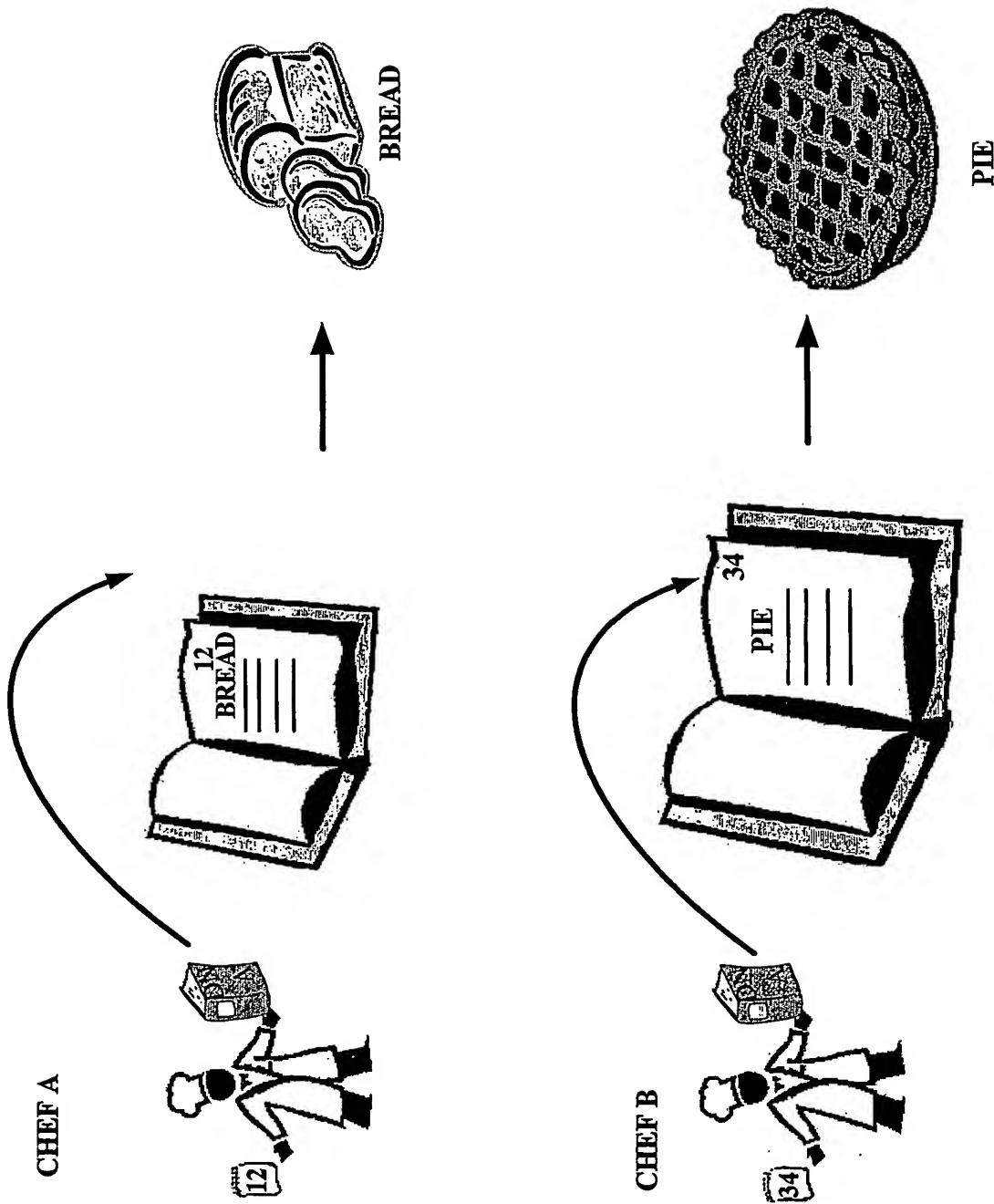


FIG. 2B



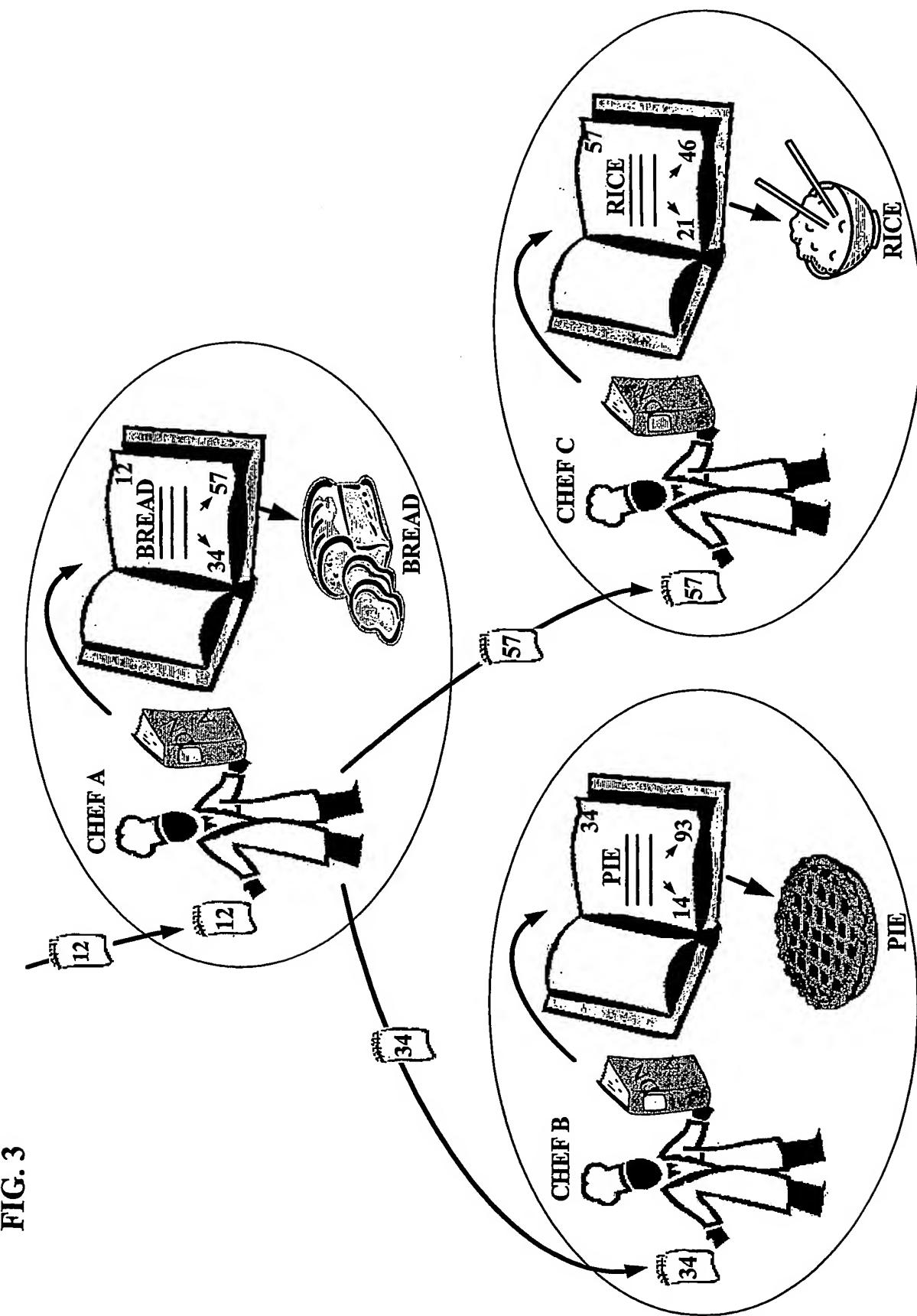


FIG. 3

FIG. 4

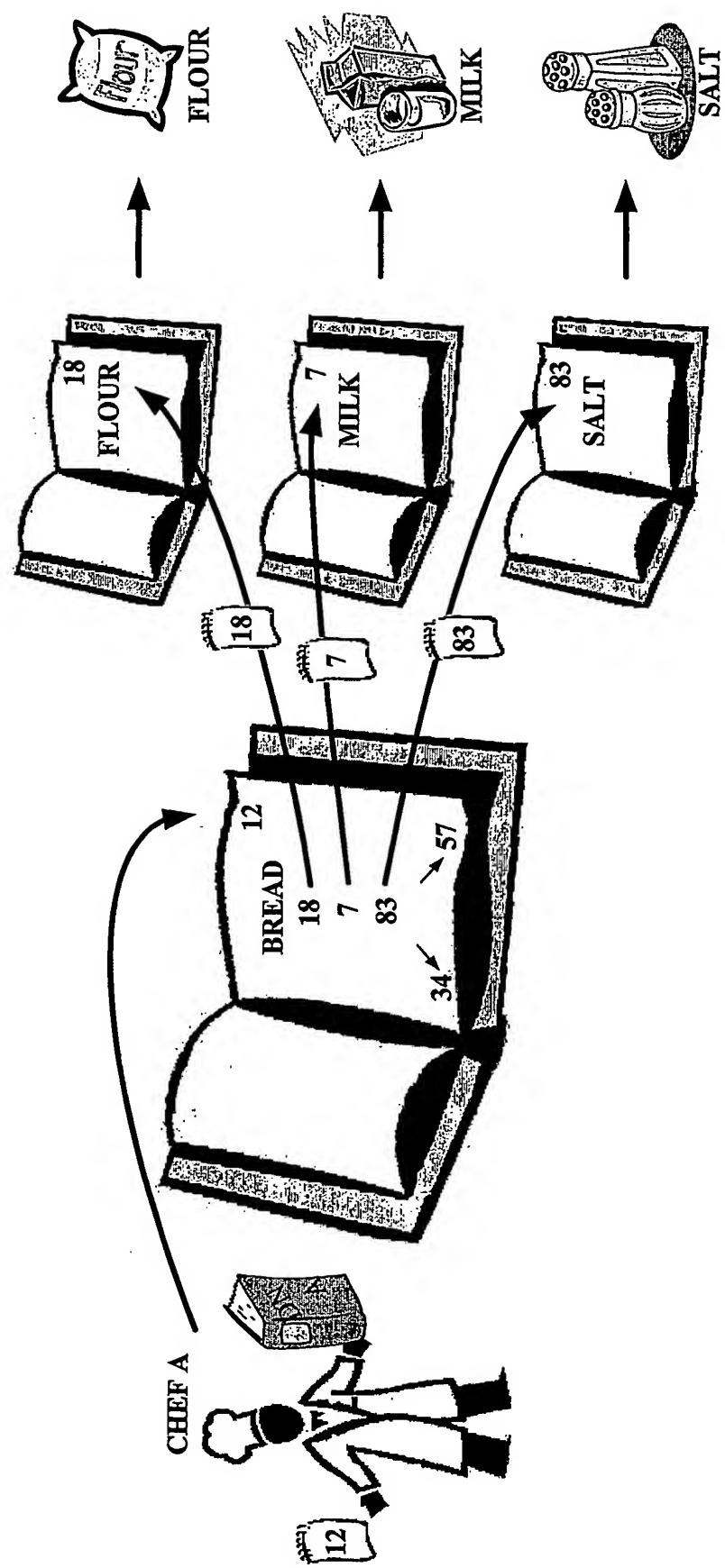


FIG. 5A

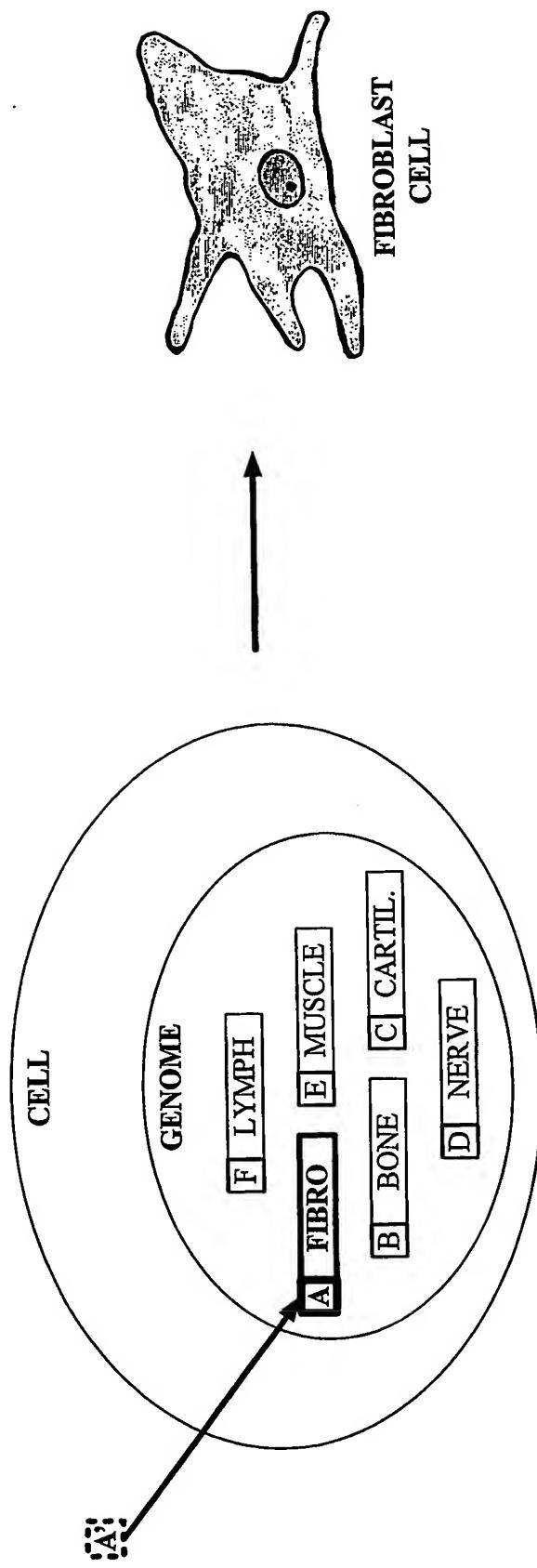
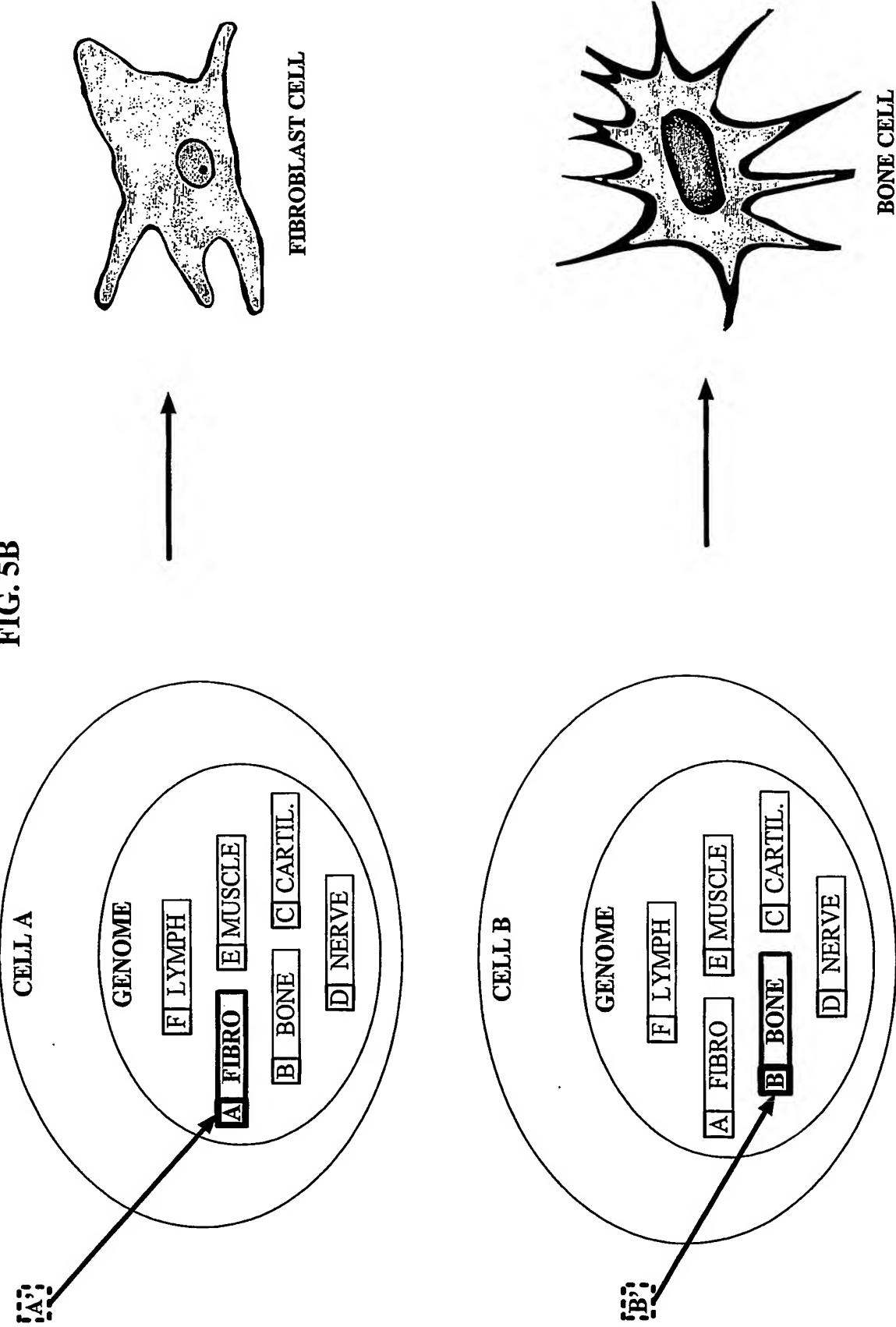


FIG. 5B



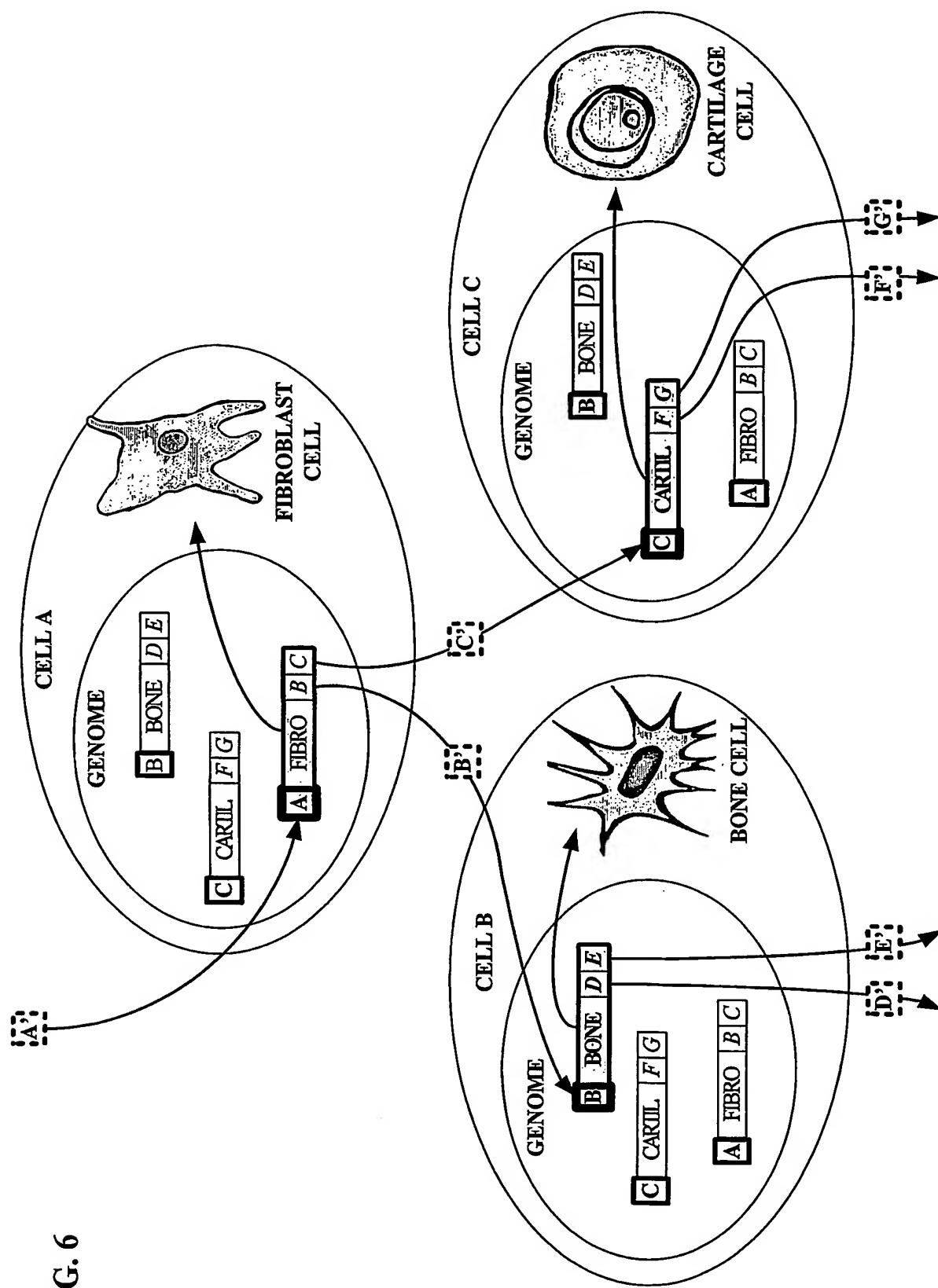


FIG. 6

FIG. 7

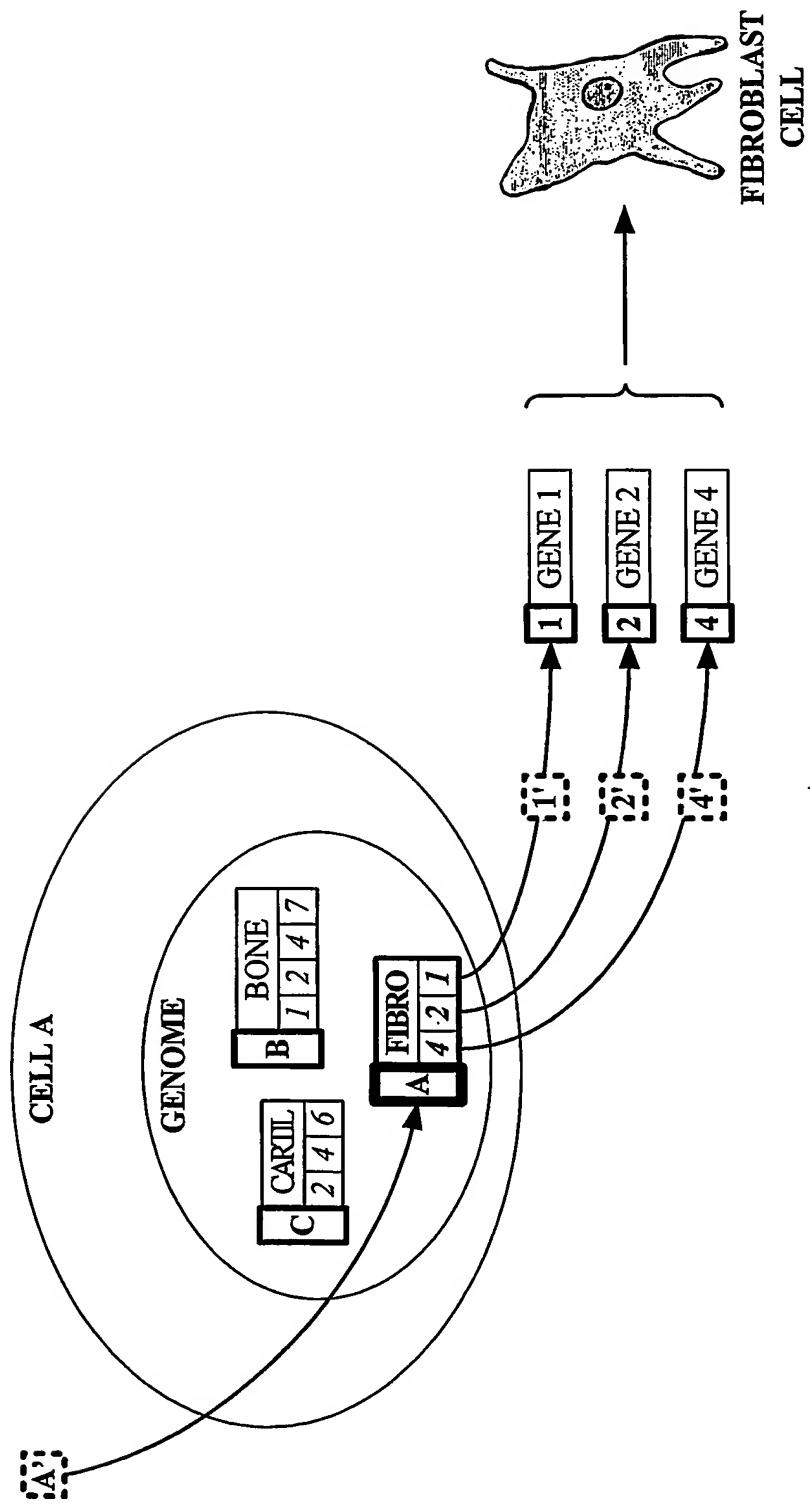
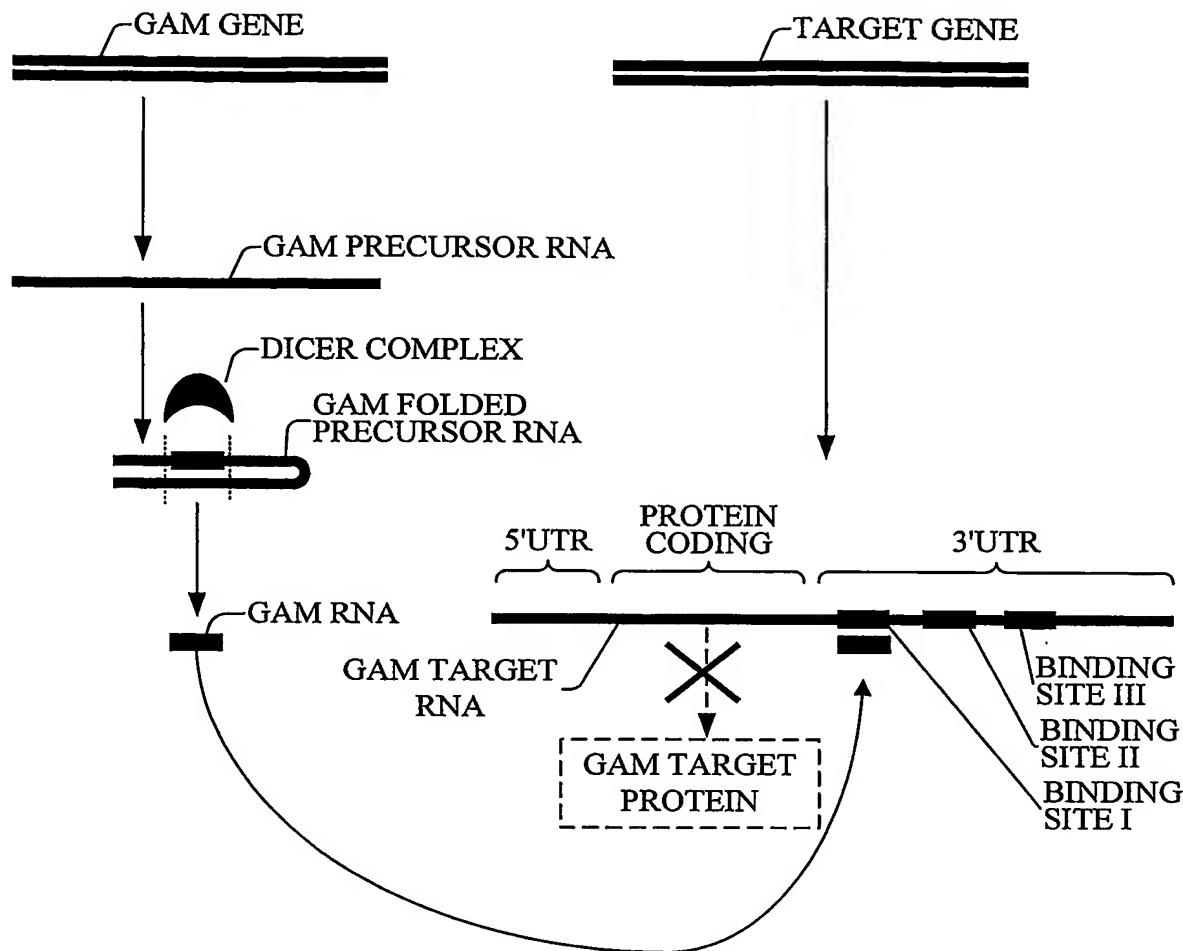


FIG. 8

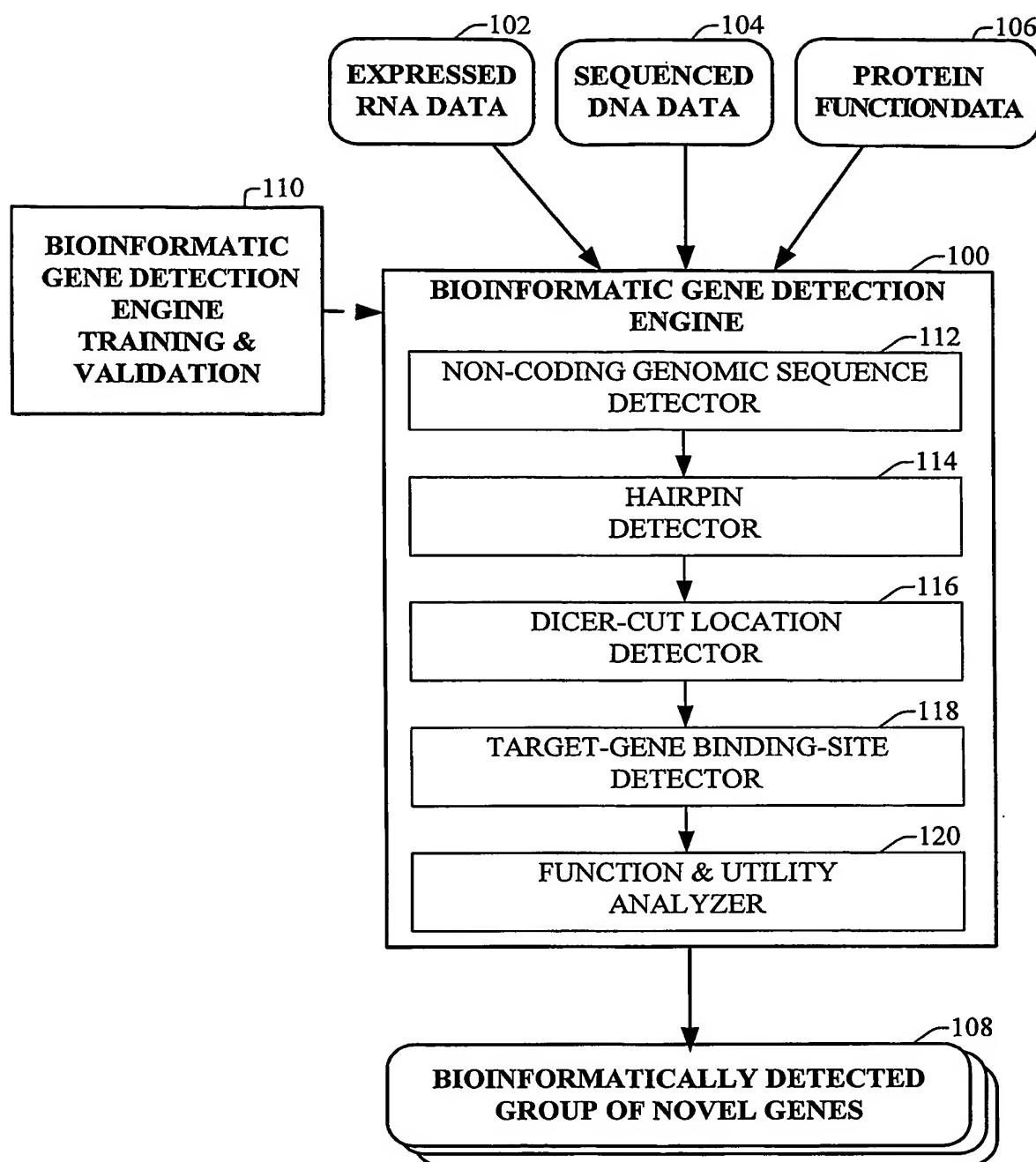
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FIG. 9

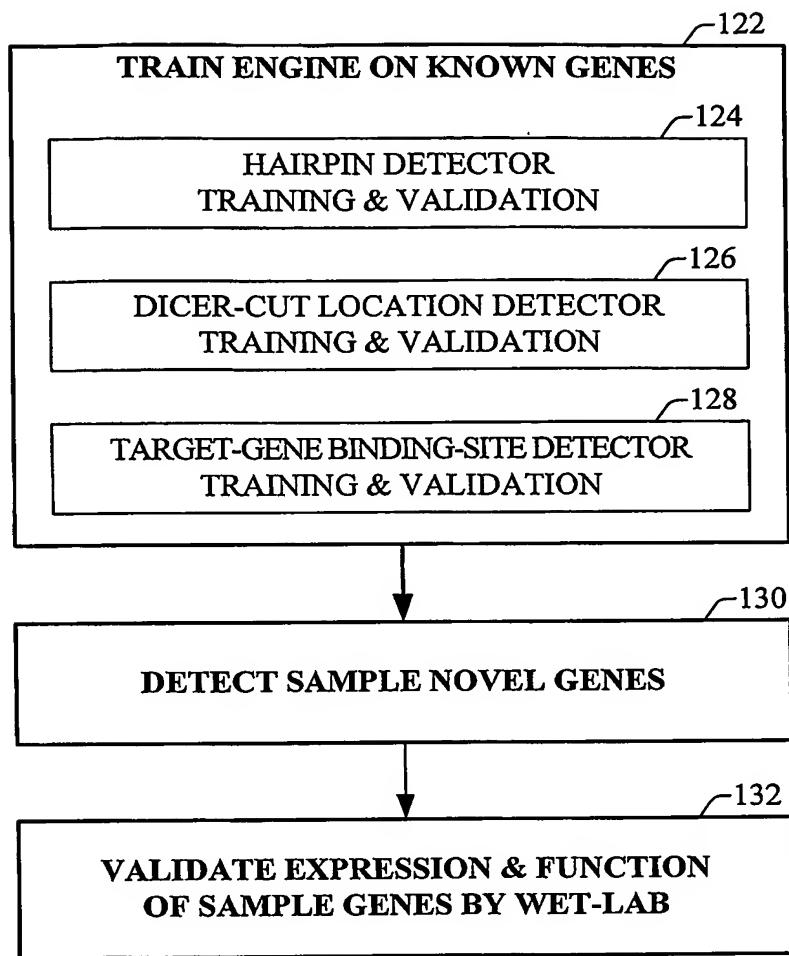
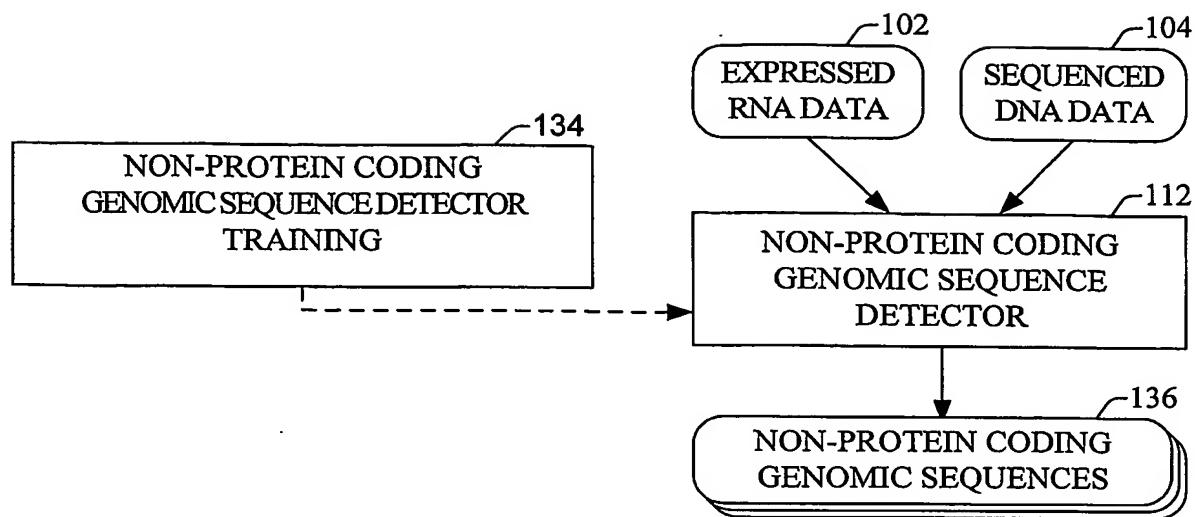
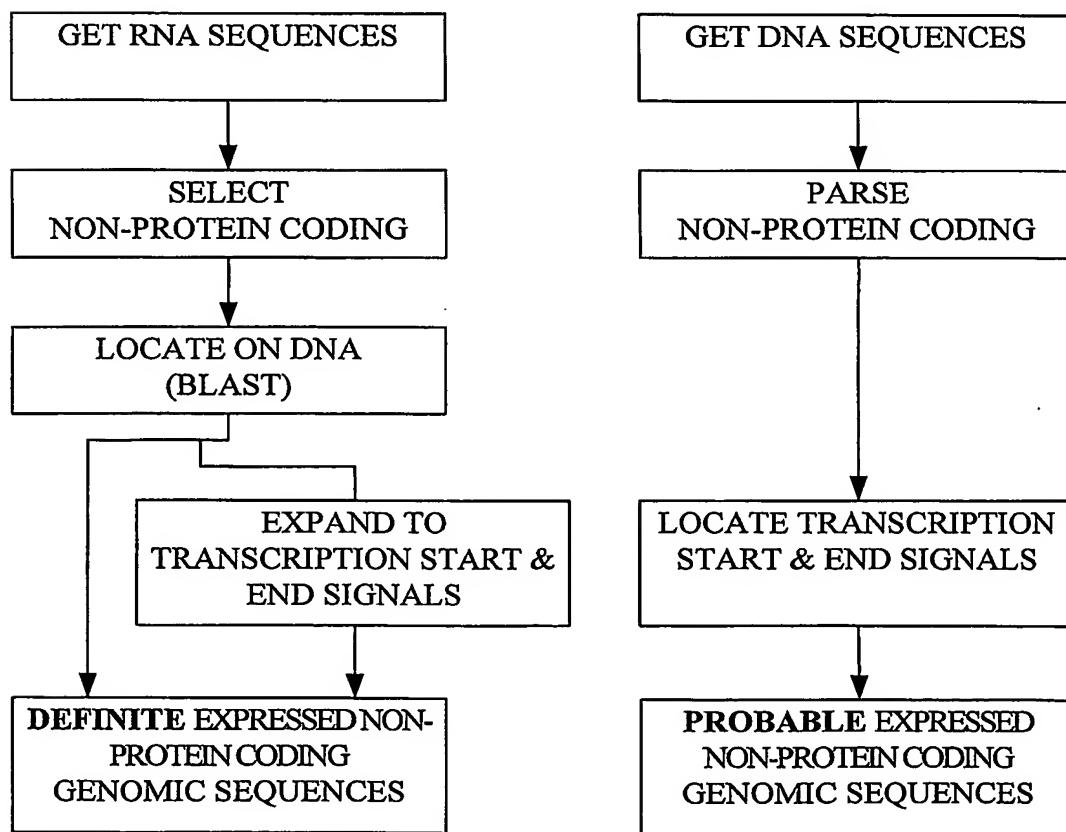
FIG. 10

FIG. 11A**FIG. 11B**

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FIG. 12A

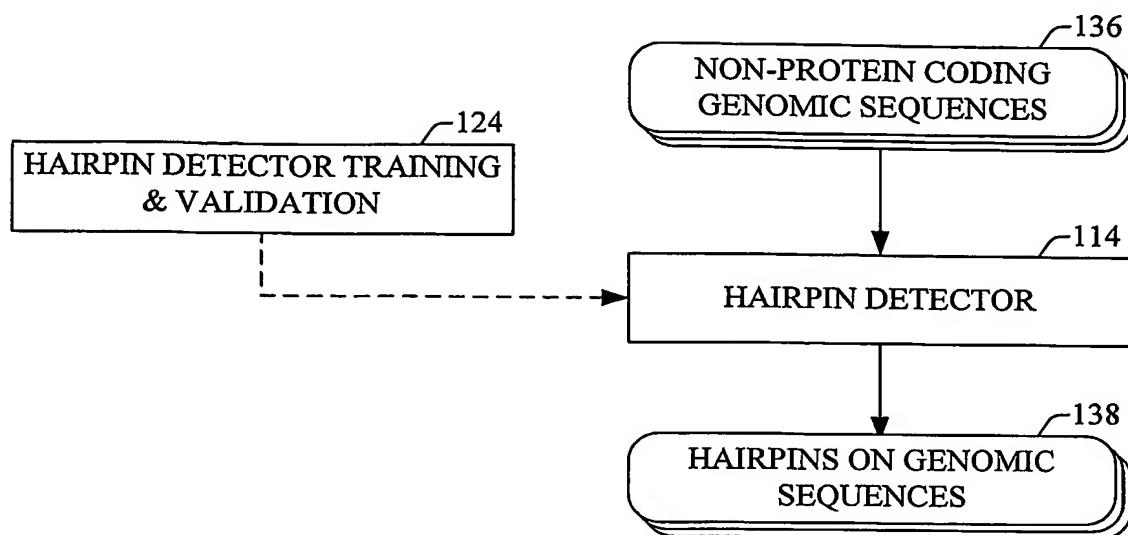


FIG. 12B

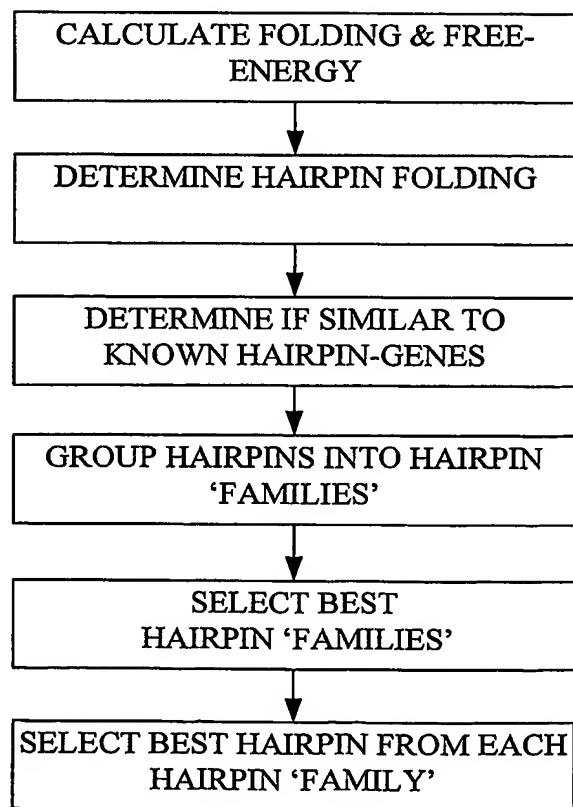


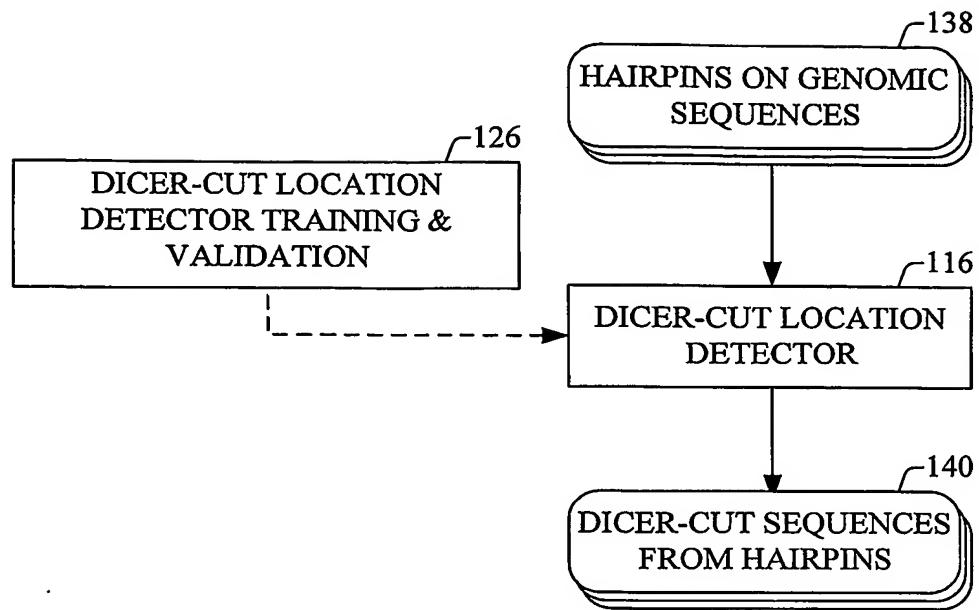
FIG. 13A

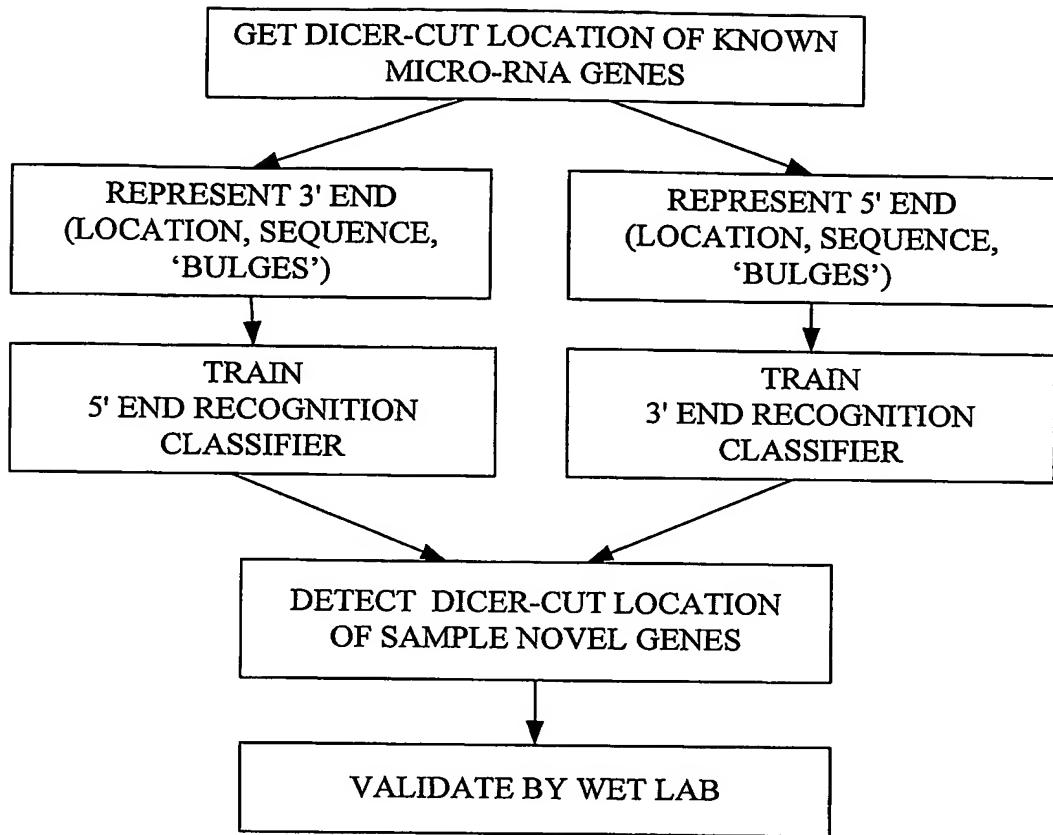
FIG. 13B

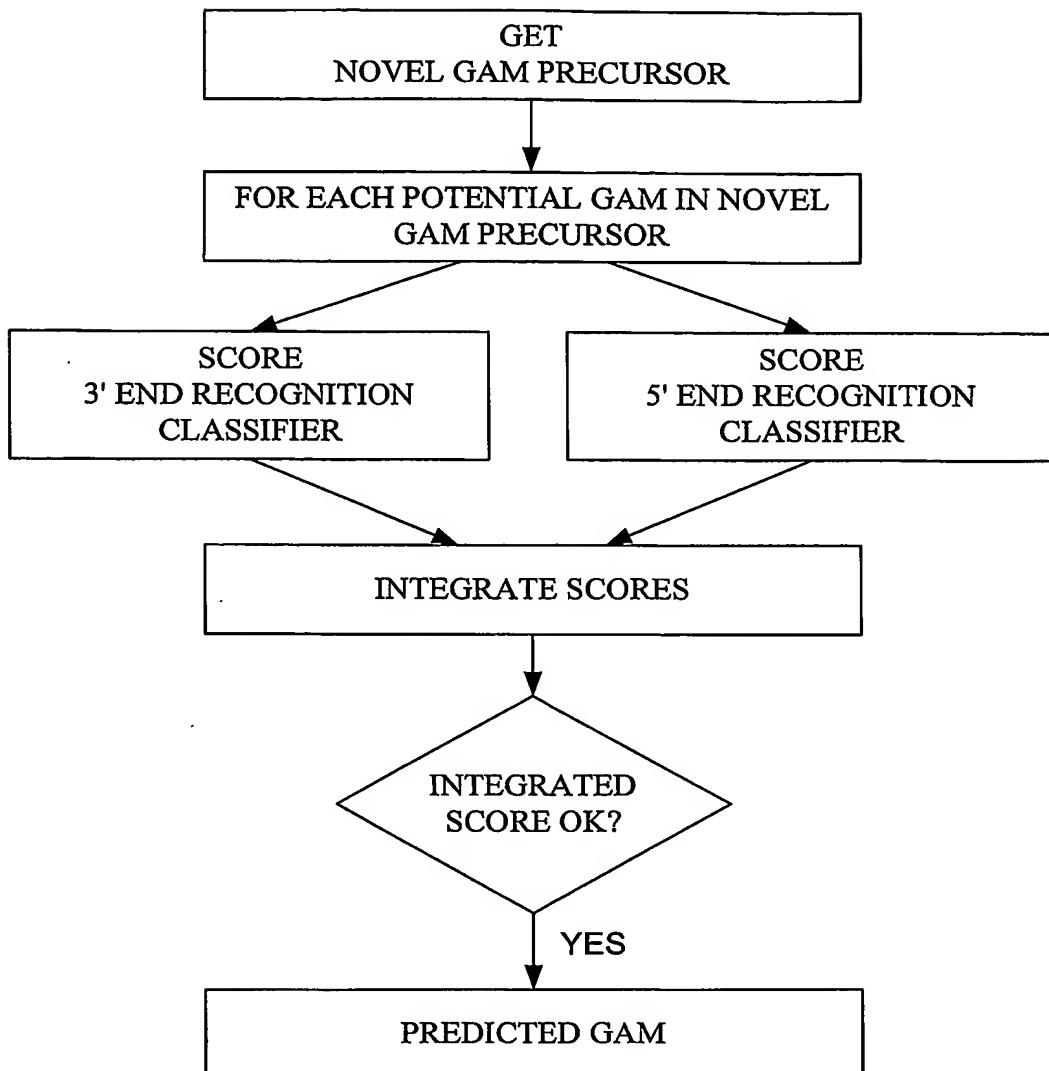
FIG. 13C

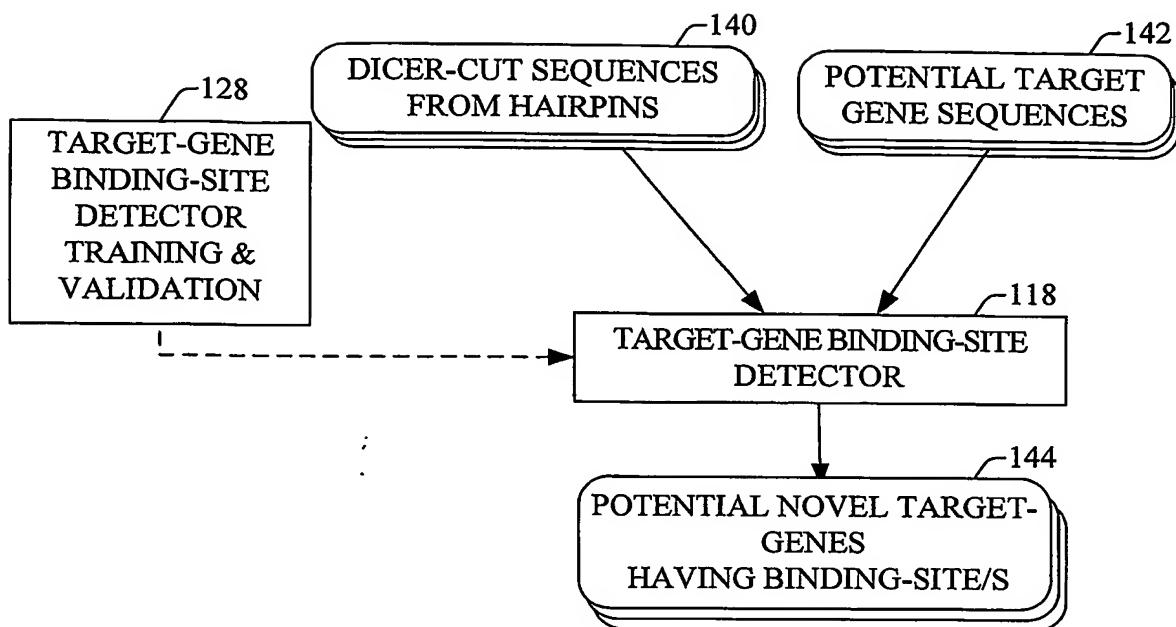
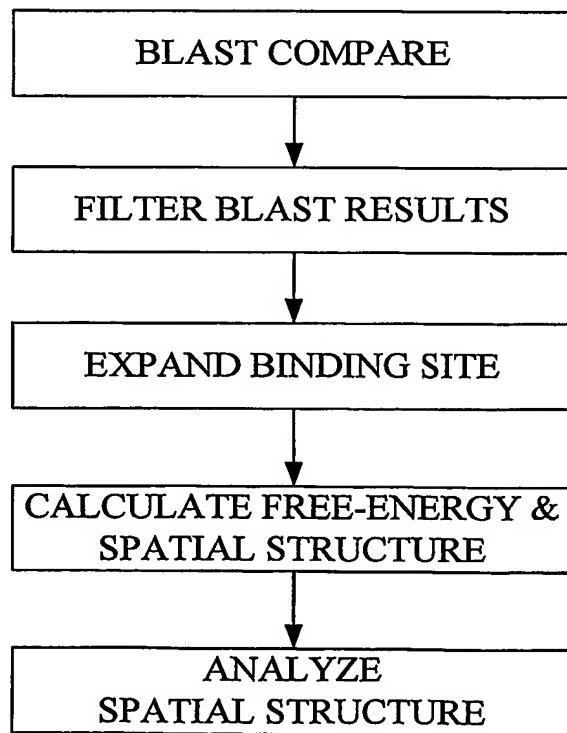
FIG. 14A**FIG. 14B**

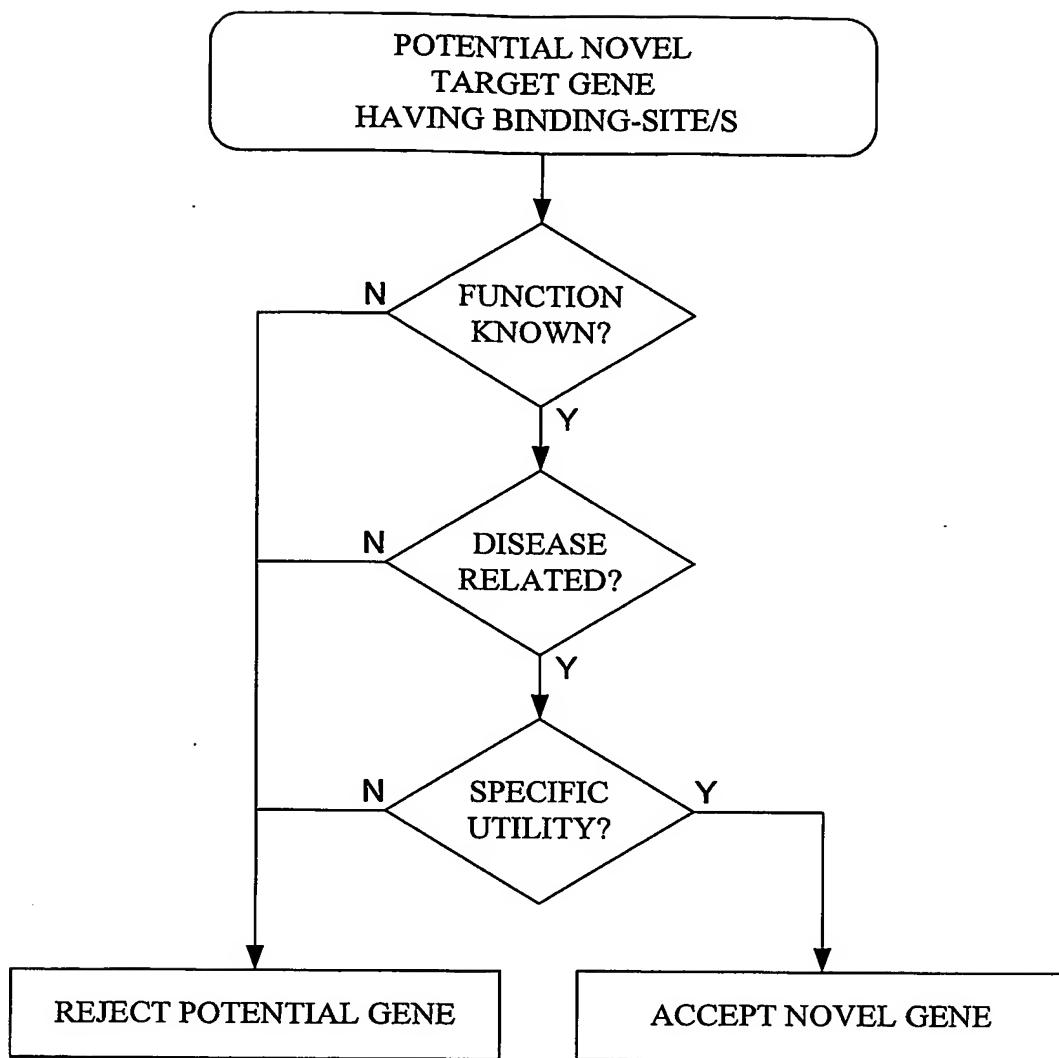
FIG. 15

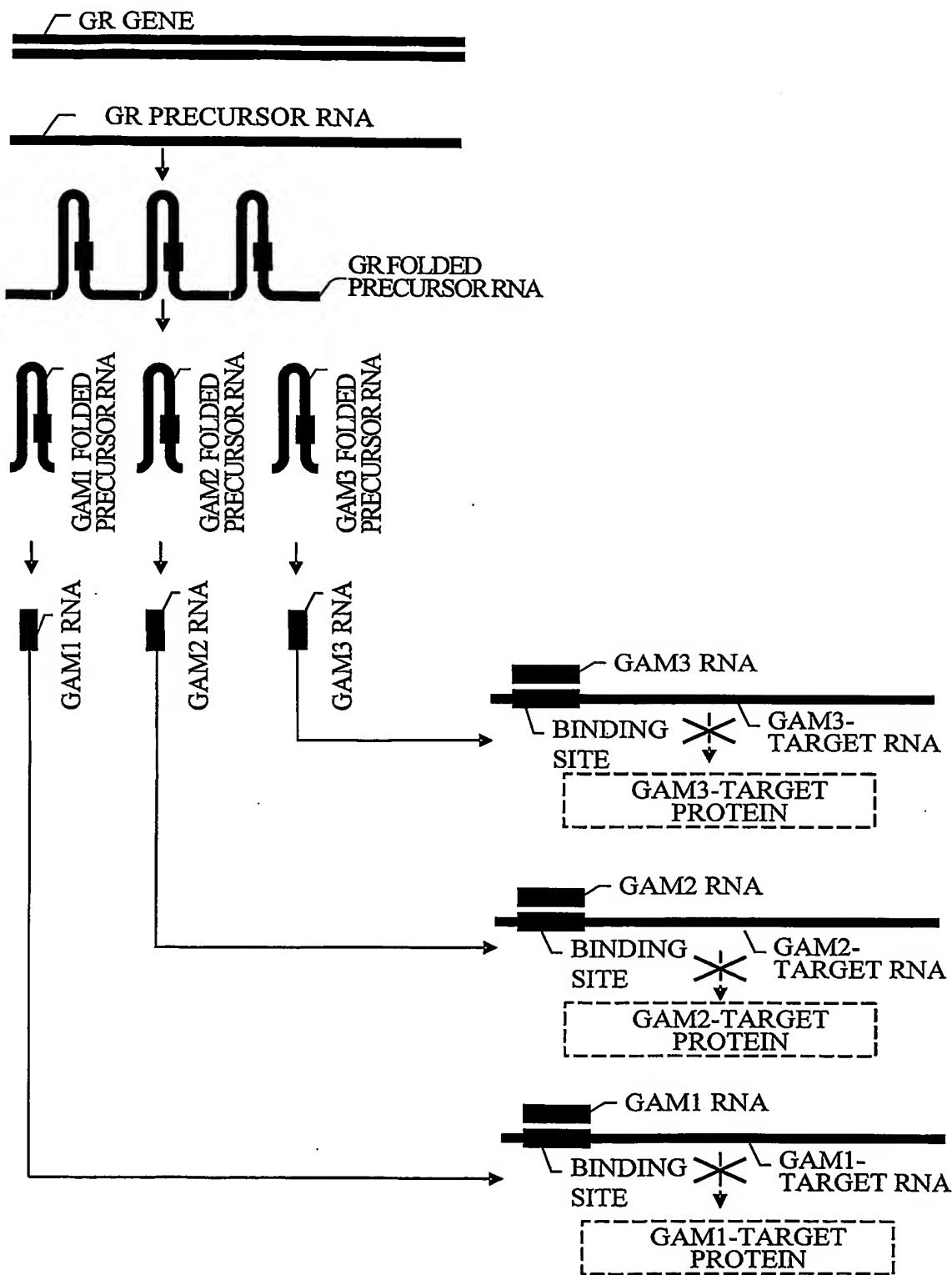
FIG. 16

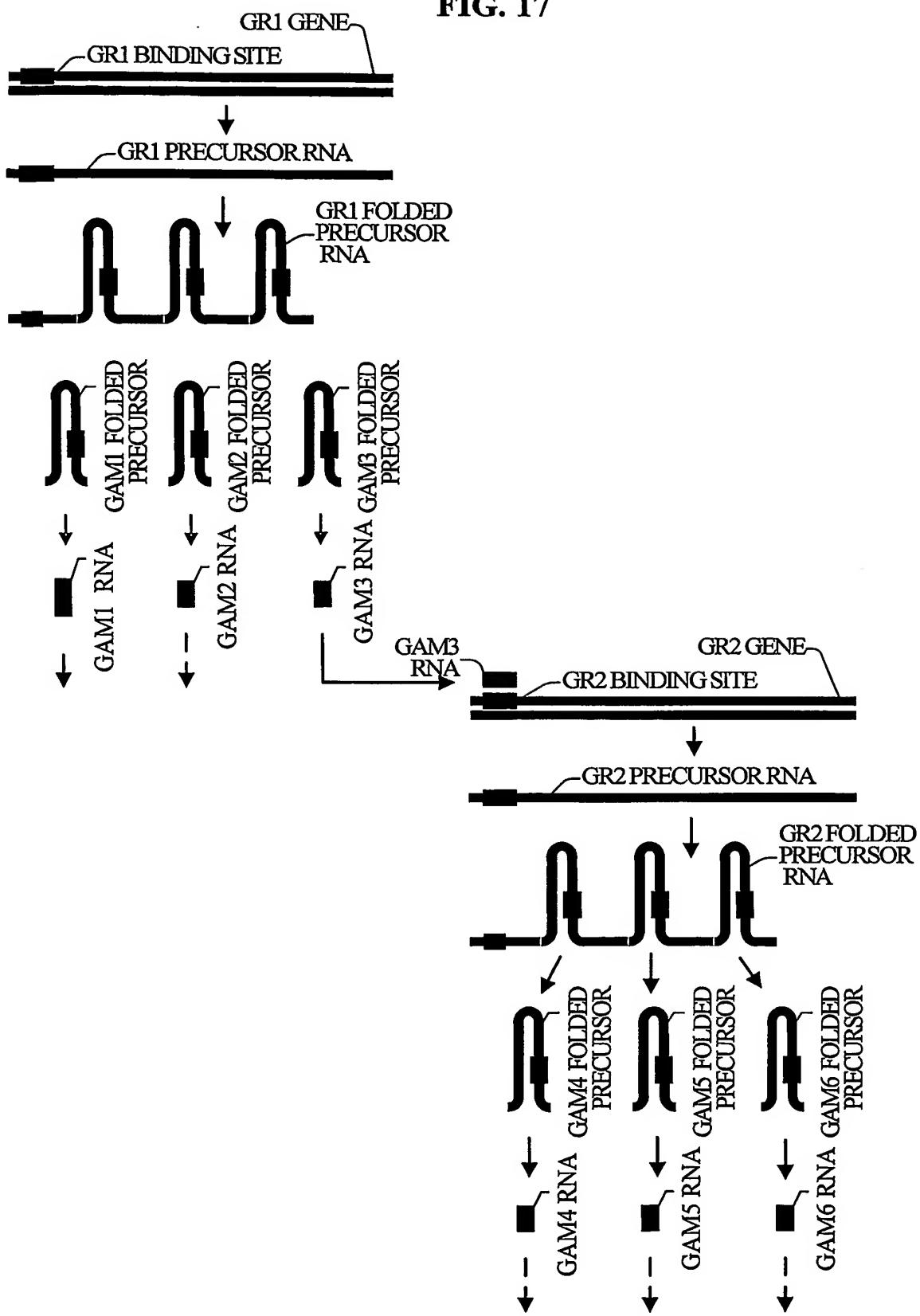
FIG. 17

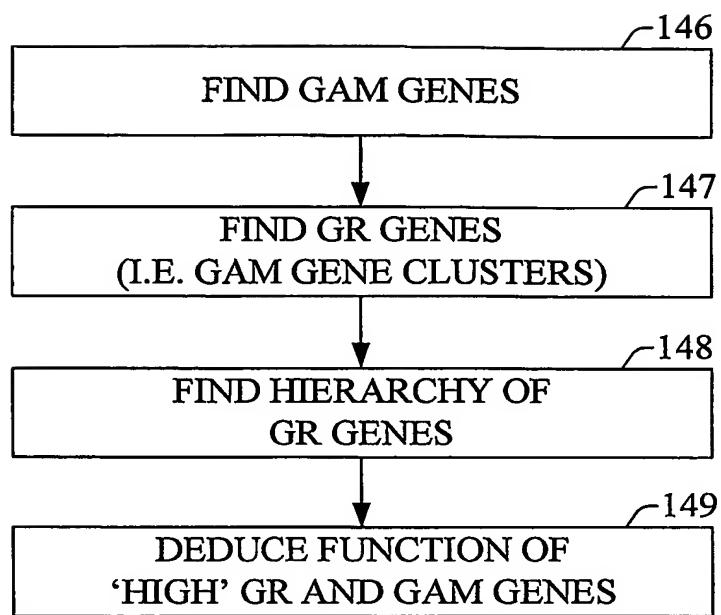
FIG. 18

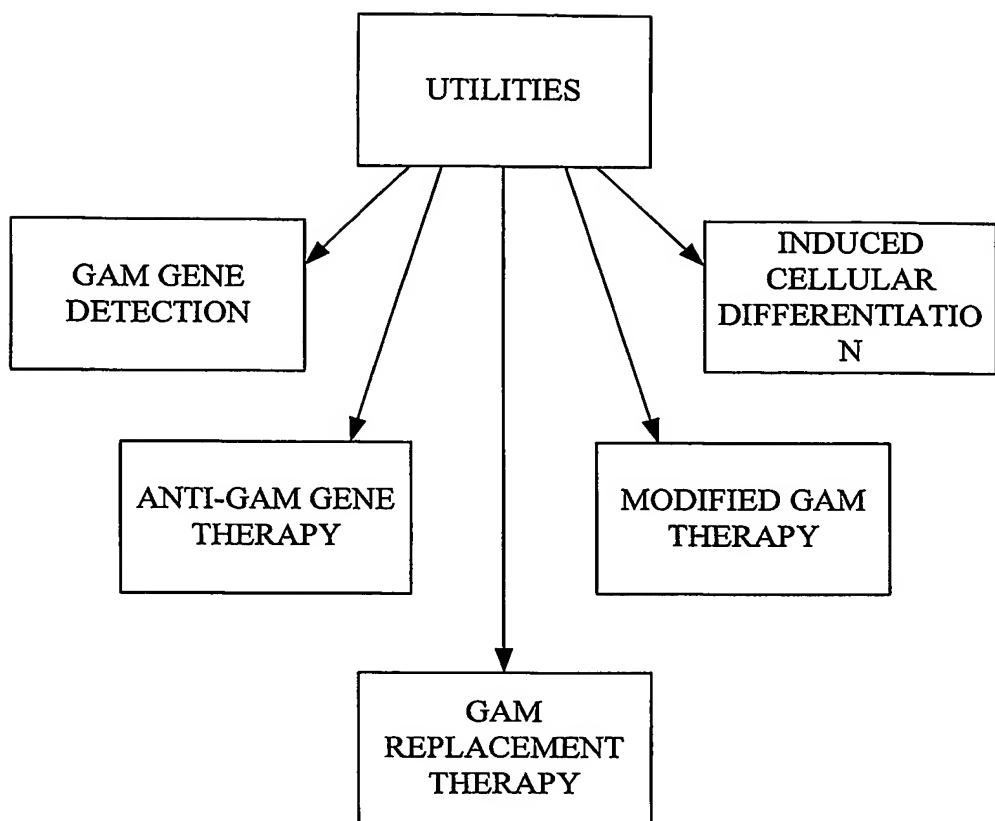
FIG. 19

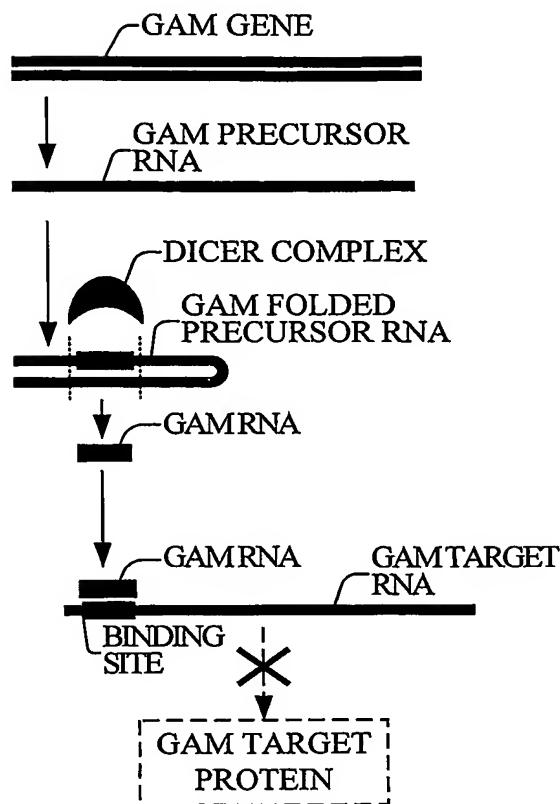
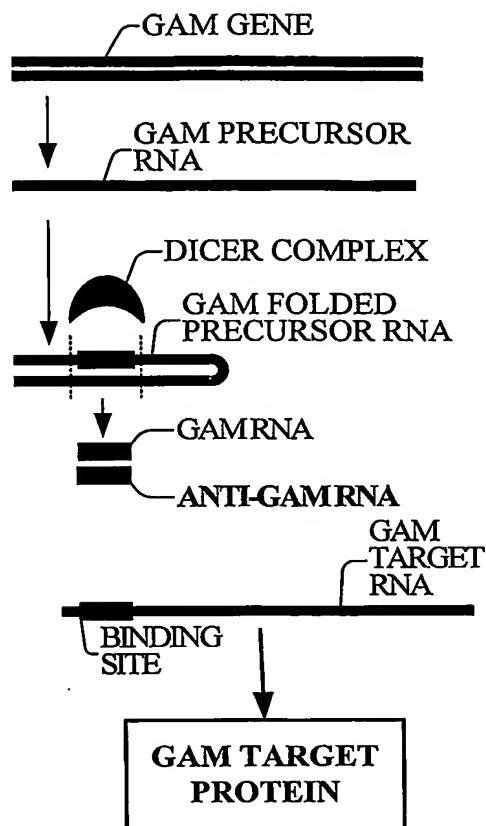
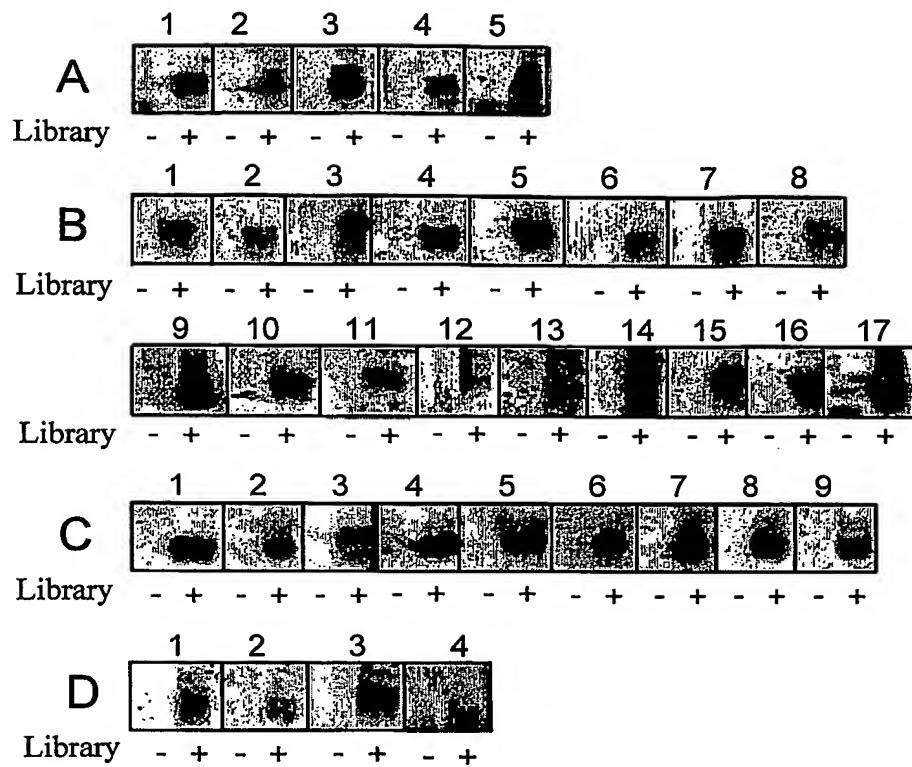
FIG. 20A**FIG. 20B**

FIG. 21

Detection Accuracy Group	Number of Published MiRs	Lab Validation			Novel GAMS of Present Invention	Hairpins in RNA Database	
		Sent	Positive	% success		Number	Expected
A	82	10	5	50%	562	564	282
B	146	91	32	35%	526	813	285
C	38	30	9	30%	625	2080	624
D	78	16	4	25%	3034	11512	2878
Overall	344	147	50	34%	4747	14969	4069

FIG. 22

Chr 9

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MIR24 N7
MIR23 E8 N3
MIR223 E8 N3
GAM116 N116
N4 N6
N9 N6
N116 N7

The figure displays a gel electrophoresis pattern with 11 lanes labeled 1 through 11 at the bottom. Lane 11 is a dark, solid black band. Lanes 1 through 10 show faint bands. Above the gel, a bracket labeled "GAM22" spans lanes 1 through 10. To the left of lane 1, a small rectangular box contains the sequence: GGTGG CGCTT GCGAT GCT CC--- ATT. Lines connect this sequence to the bands in lanes 1 through 10. Lane 11 has a label "1130bp" and lane 10 has a label "60bp".

FIG. 23A

FIG. 23B

FIG. 23C

FIG. 24A

EST72223 (705 nt.)

Chr. X



EST72223 sequence:

CCCTTATTAGAGGATTCTGCTATGCCAGGGTGAGGTAGTAAGTTGATTG
TGTGGGGTAGGGATAATTAGCCCCAATTAGAACATAACTATACA
ACTACTTTCCCTGGTGTGGCATATTACACTTAGCTTAGCAGTGTGC
TCCATCAGACAAAGTTGAGATGTCCTGGATAATTGGACTGGAAGAAA
GACATGGAAGGGGACAGATGGTGTAGGTGAGGCAGATGTCATTATAAAGT
GACTTGCTTCAATTGGAGCATATAATTACCTTGGCATGAACTC
ATTGGCTTCAACTGTGTAATGATTGCACTTATTAGTAATAGAACAGGA
ATGTGTGCAAGGGAAAGCATACTTTAAGAATTGGGCCAGGCGCGGT
GGTTCATGCCGTAAATCCCAGCATTGGGAGGCCAGGGGGTGGATCAC
CTGAGGTCAAGGAGTTGAGACCAACCTGCCAACACGGCGAAACCCGCC
TACTCAAATACAAAAATTAGCCAGGCTTGGTGACACTGCCGTGGTCCCAGC
TACTCAGGAGGCTGAGGCAGGAGAATTGCTGAACCCAGGAAGTGGAG
GCTTCAGTGAAGCTGAGAACACGCCACTGCACTCCAGTCCTGGCAAC
AGAGCAAGACTCTGTCAGGAAAAAAAAG

FIG. 24B

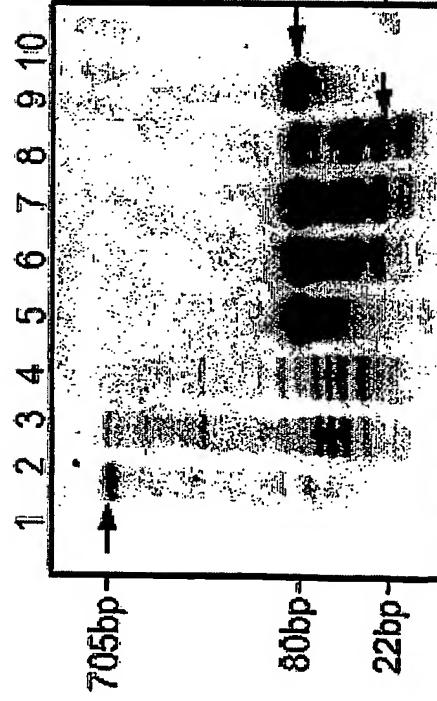


FIG. 24C



	1	2	3	4	5	6	7	8	9	10
Lysate-S100	+	+	+	+	+	+	+	+	+	+
EST72223	-	+	+	+	-	-	-	-	-	-
Mir98	-	-	-	-	+	+	+	+	-	-
Time(h)	24	0	4	24	0	1	4	24	0	0.5
EDTA	-	-	-	-	-	-	+	-	-	+